

Surface Water Quality Data in Karaikal for JUL- SEP 2022 Quarter

Sl.No.	Parameters	Arasalar River
	Station Code	1685
1	Latitude	10.9095 N
2	Longitude	79.817833 E
3	Dt.of Sampling	10.09.2022
4	Time	06:30 A.M
5	Temperature °C	29 °C
6	DO mg/l	6.2
7	pH	8.40
8	Conductivity µmho/cm	1216
9	Turbidity NTU	6.8
10	COD (mg/l)	8.0
11	BOD (mg/l)	BDL (DL : 1.0)
12	Nitrate -N (mg/l)	BDL (DL : 0.3)
13	Nitrite -N (mg/l)	BDL (DL: 0.02)
14	Nitrate (mg/l)	BDL
15	Ammonia - N mg/l	BDL (DL : 0.4)
16	P. Alkalinity (mg/l)	28
17	Carbonate as CO ₃ ²⁻ (mg/l)	16.8
18	M. Alkalinity (mg/l)	312
19	Total Alkalinity (mg/l)	340
20	Bi-Carbonate as HCO ₃ ⁻ (mg/l)	380.64
21	Chloride mg/l	51.62
22	Total Hardness mg/l	98
23	Calcium Hardness mg/l	64
24	Calcium as Ca ⁺⁺ mg/l	25.6
25	Magnesium Hardness mg/l	34
26	Magnesium as Mg ⁺⁺ mg/l	8.3

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27	TDS mg/l	284
28	TSS (mg/l)	20
29	FDS/TFS mg/l	147.0
30	Sulphate (mg/l)	114.04
31	Ortho phosphate(mg/l)	BDL (DL : 0.05)
32	Sodium mg/l	48.4
33	Potassium mg/l	3.3
34	Hexavalent Chromium mg/l	BDL (DL : 0.05)
35	% Sodium	50.58
36	SAR	2.1
37	Copper (mg/l)	BDL (DL : 0.01)
38	Nickel (mg/l)	BDL (DL : 0.01)
39	Cadmium (mg/l)	BDL (DL : 0.001)
40	Lead (mg/l)	BDL (DL : 0.005)
41	Total Chromium (mg/l)	BDL (DL : 0.01)
42	Iron (mg/l)	BDL (DL : 0.02)
43	Zinc (mg/l)	BDL (DL : 0.1)
44	Arsenic (mg/l)	BDL (DL : 0.005)
45	Mercury (mg/l)	BDL (DL : 0.0005)
46	Total Coliform MPN/100 ml	170
47	Faecal Coliform MPN/100ml	130
48	Faecal Streptococci MPN/100ml	94
49	Alpha HCH µg/l	BDL
50	Gamma HCH µg/l	BDL
51	Detla HCH µg/l	BDL
52	Methyl Parathion µg/l	BDL
53	Alachor µg/l	BDL
54	Aldrin µg/l	BDL

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55	Malathion µg/l	BDL
56	Chlorpyrifos µg/l	BDL
57	Alpha Endosulfan µg/l	BDL
58	Butachlor µg/l	BDL
59	Beta Endosulfan µg/l	BDL
60	Phorate µg/l	BDL
61	op DDT µg/l	BDL
62	op DDD µg/l	BDL
63	pp DDD µg/l	BDL
64	op DDE µg/l	BDL
65	pp DDE µg/l	BDL
66	Dieldrin µg/l	BDL
67	Ethion µg/l	BDL
68	Endosulfan sulfate µg/l	BDL
69	pp DDT µg/l	BDL

BDL - Below Detectable Limit DL - Detection Limit